Abstract

An antenna (96) for use in inductive coupling two devices (34 and 42) includes a first coil (180) having a first inductance value, a second coil (190) having a second inductance value, and a capacitor (198) having a capacitance value. The first and second coils (180 and 190) and the capacitor (198) form a tank circuit (196) having a predetermined resonant frequency. The capacitance value of the capacitor (198) varies inversely to an equivalent inductance value of the tank circuit (196) for providing the predetermined resonant frequency. The first and second coils (180 and 190) are connected in parallel with one another so that the equivalent inductance value of the tank circuit (196) is less than each of the first and second inductance values and the capacitance value of the capacitor (198) is maintained above a predetermined threshold value for providing stability to the tank circuit (196).